

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P283695

Luminaire Tested: **LDA2B159727D010 EU2B15FL409727 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283695
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-15)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B159727D010 EU2B15FL409727 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 853.1 lumens
Efficiency: N/A
Efficacy: 60.5 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.55
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

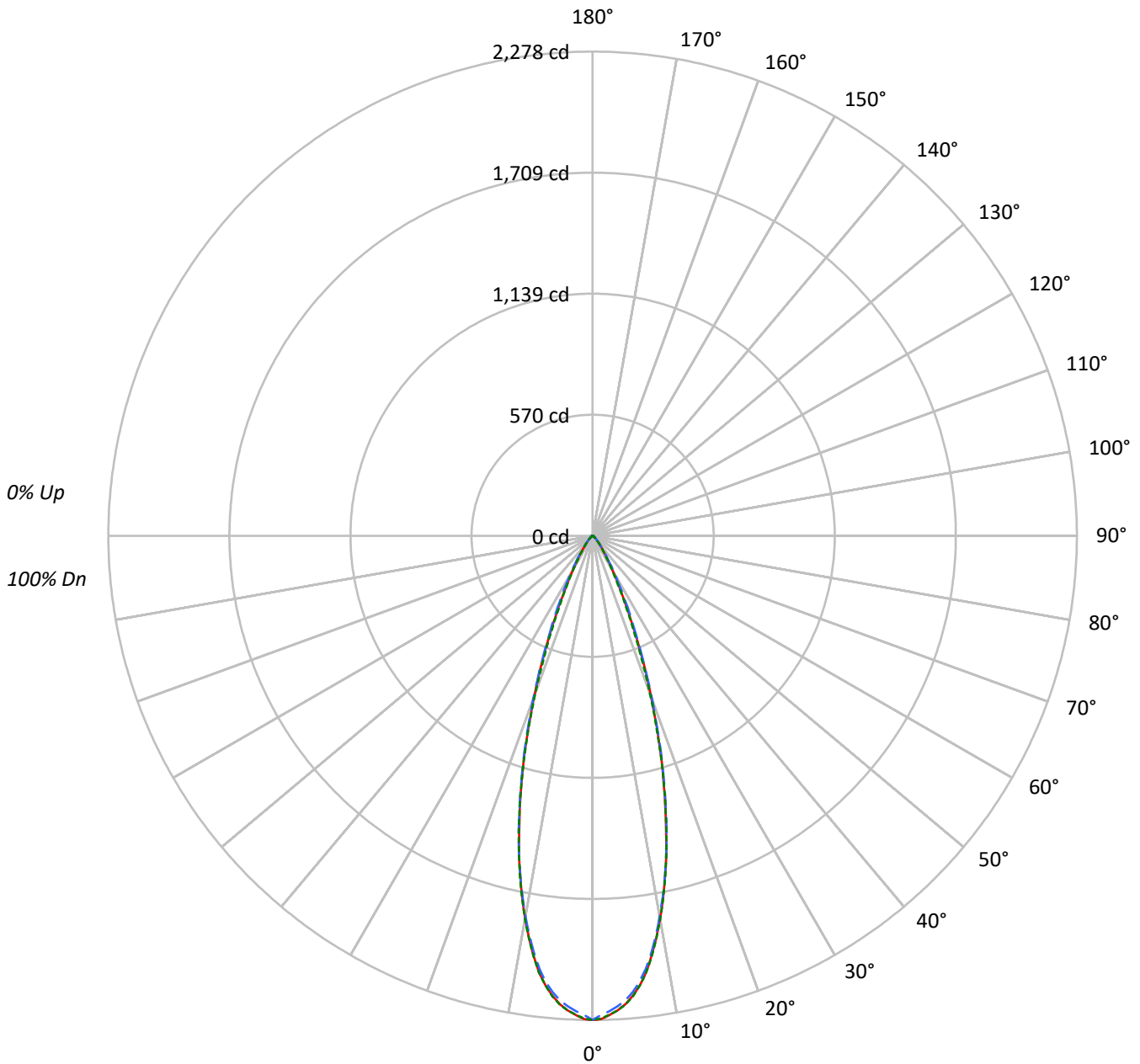
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95																			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90																			
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86																			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82																			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79																			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75																			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72																			
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69																			
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67																			
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1123977	1123977	1123977
5°	1075675	1067603	1077309
10°	916429	910668	917381
15°	675437	679829	677633
20°	421647	429470	412354
25°	217800	233696	206859
30°	104423	119691	99524
35°	53904	59686	50471
40°	30205	31751	28660
45°	18350	18350	17722
50°	9517	11743	9517
55°	4903	7827	5333
60°	5624	5624	5624
65°	6187	6187	6187
70°	7645	6924	7645
75°	7244	7244	7244
80°	6819	6819	6819
85°	5661	5661	5661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.0	23.0
10°-20°	359.9	42.2
20°-30°	195.1	22.9
30°-40°	62.6	7.3
40°-50°	21.3	2.5
50°-60°	7.5	0.9
60°-70°	5.4	0.6
70°-80°	4.0	0.5
80°-90°	1.1	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	751.0	88.0
0°-40°	813.7	95.4
0°-60°	842.5	98.8
0°-90°	853.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	853.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2278	2278	2278	2278	2278	
5°	2172	2159	2156	2177	2175	196
15°	1322	1333	1331	1337	1327	358
25°	400	418	429	400	380	192
35°	90	93	99	90	84	60
45°	26	27	26	26	25	21
55°	6	7	9	7	6	6
65°	5	6	5	6	5	5
75°	4	4	4	4	4	4
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2278.2	2278.2	2278.2	2278.2	2278.2
1°	2274.4	2258.1	2255.7	2276.8	2272.0
2°	2256.2	2240.9	2238.5	2259.5	2255.2
3°	2236.1	2222.2	2217.4	2239.4	2236.6
4°	2209.3	2196.4	2192.1	2214.1	2211.7
5°	2172.0	2158.6	2155.7	2177.2	2175.3
6°	2126.0	2115.0	2109.7	2131.3	2127.4
7°	2068.6	2058.5	2052.8	2068.6	2070.5
8°	1993.9	1989.1	1982.4	1998.2	1998.2
9°	1914.5	1910.2	1903.0	1917.3	1917.3
10°	1829.3	1826.4	1817.8	1831.2	1831.2
11°	1735.9	1734.5	1728.3	1739.3	1739.3
12°	1637.8	1641.2	1635.4	1645.0	1641.7
13°	1539.7	1538.3	1538.7	1545.9	1540.7
14°	1428.7	1437.3	1438.7	1443.0	1434.9
15°	1322.4	1333.4	1331.0	1337.3	1326.7
16°	1213.8	1226.2	1225.7	1227.2	1217.1
17°	1112.3	1119.5	1120.0	1118.5	1106.1
18°	1004.1	1014.2	1014.2	1011.8	997.0
19°	898.4	906.0	911.3	906.0	888.8
20°	803.1	808.4	818.0	804.6	785.4
21°	711.7	716.5	724.6	708.8	687.8
22°	624.1	630.3	638.0	619.8	597.8
23°	542.3	556.6	559.5	534.6	515.9
24°	467.1	483.4	488.2	462.8	443.2
25°	400.1	418.3	429.3	399.6	380.0
26°	342.2	359.9	373.3	343.6	325.0
27°	291.5	310.1	324.0	296.3	278.6
28°	247.9	266.1	280.5	254.6	237.9
29°	215.4	225.9	240.3	218.7	203.4
30°	183.3	194.8	210.1	188.1	174.7
32.5°	125.9	132.1	144.1	130.7	120.1
35°	89.5	93.3	99.1	90.0	83.8
37.5°	63.7	65.6	68.9	63.7	60.3
40°	46.9	47.9	49.3	46.4	44.5
42.5°	34.9	35.4	35.4	34.5	33.5
45°	26.3	26.8	26.3	26.3	25.4
47.5°	19.1	20.6	20.1	20.1	18.7
50°	12.4	15.3	15.3	14.8	12.4
52.5°	7.7	10.5	12.0	10.5	8.1
55°	5.7	7.2	9.1	7.2	6.2
57.5°	5.7	5.7	6.7	5.7	5.7
60°	5.7	5.7	5.7	5.7	5.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	5.3	5.3	5.3	5.3	5.3
70°	5.3	5.3	4.8	5.3	5.3
72.5°	4.8	4.8	4.3	4.8	4.3
75°	3.8	3.8	3.8	3.8	3.8
77.5°	2.9	2.9	2.9	2.9	2.9
80°	2.4	2.4	2.4	2.4	2.4
82.5°	1.4	1.4	1.4	1.9	1.4
85°	1.0	1.0	1.0	1.0	1.0
87.5°	0.5	0.5	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







62.5°	5.7	5.7	5.7	5.7	5.7
65°	5.3	5.7	5.3	5.7	5.3



(END OF REPORT)